INDIAN SCHOOL AL WADI AL KABIR

Department of Mathematics, 2018-2019

Class XI **APPLIED MATHEMATICS (241)** 10.09.2020

WORKSHEET- REVIEW

1.	**. Write the set A = { x : x is an integer, $-1 \leq x < 4$} in roster form**
2.	**List all the elements of the set, $A = \{ x : x \in Z, -1/2 < x < 11/2\}$**
3.	**Write the set B = {3,9,27,81} in set-builder form.**
4.	**Are sets A = { –2,2}, B = { x : x ϵ Z, $x^2 - 4 = 0$} equal? Why?**
5.	**Write { x : –3 ≤ x <7} as interval.**
6.	**If A = { 1,3,5}, how many elements has P(A)?**
7.	**If A = {1,2,3,6} , B = {1, 2, 4, 8} find B – A**
8.	**Are sets A = {1,2,3,4}, B = { x : x ϵ N and 5 ≤ x ≤ 7} disjoint? Why?**
9.	**. If X and Y are two sets such that n(X) = 19, n(Y) = 37 and n(X ∩ Y) = 12, find n(X ∪ Y).**
10.	Write the set in roster form A is equal to the set of all letters in the word 'TRIGONOMETRY'?
11	**.Write the set $\left\{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}\right\}$ in the set builder form.**
12.	**Find a and b if (a – 1, b + 5) = (2, 3)**
13.	**If P = {1,3}, Q = {2,3,5}, find the number of relations from A to B**
14.	**If A = {1,2,3,5} and B = {4,6,9}, R = {(x, y) : |x – y| is odd, x ∈ A, y ∈ B} Write R in roster**
15.	How many 4 letter code can be formed using the first 10 letter of the English alphabet if no letter can be repeated?
16.	If all the words with or without meaning formed using the letters of the word INDIA are arranged in dictionary order, find 50th word.
17.	There are 10 points, out of ththis 4 points are colloinear. Find the number of straight lines obtined from the points ?
18.	There are 10 points, out of ththis 4 points are colloinear. Find the number of triangles obtined from the points ?
19.	How many chords can be drawn through 21 points on a circle
20.	A committee of 5 persons, consisting of atleast 2 ladies to be formed from if there are 6 gents and 4 ladies. Find the number of ways.

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